

Selection of D-C Power Supplies for Manual Arc Welding (Cont.)
is under a small load when connected to the individual circuit.
ASSOCIATION: Leningrad Polytechnic Institute (Leningr. politekhn.
in-t) 112-3-6099
Ye. A.F."

Card 4/4

TAYZERMAN, A.

PAGE I BOOK INFORMATION	SOV/2393
Language: Polish	
Author(s): Politotekhnichesky Institut Rabochego i Konsumenta	economic, organizational planning machinery manufacturing, economic organization Planning of Production
Editor(s): V. I. Slobodin, Ye. N. Kaprik, G. A. Solntsev	Machinery Manufacturing Economics Organization Moscow, Rabochi, 1958, 110 p.
Publisher: Izdatelstvo SSSR	2,600.
Number Printed:	
Supporting Agency:	USSR, Ministerstvo Vsesoyuznoy Obrazovaniya.
Author:	Mr. V. I. Slobodin, Doctor of Technical Sciences, Professor; Ye. N. Kaprik, Candidate of Economic Sciences, Doctor; G. A. Solntsev, Candidate of Technical Sciences, Doctor; Prof. Dr. Ed. Pol. essay.
Comments:	This collection of articles is intended for engineering and technical personnel of machine-manufacturing establishments. Contents: This collection covers the theoretical aspects of the technical operation of machine-manufacturing establishments and the different five articles deal with problems of classifying production lines for lot production, variations of the flow of parts, and duration of the machining cycle, etc. Remaining articles are devoted to the economic efficiency of new technology, problems of quality control, and to the question of specialization and cooperation. No personnel is mentioned. References are given at the end of several articles.
Language:	Economic analysis in the Selection and Use of Fittering and Welding Equipment
Editor(s): Ye. N. Organizing Quality Control of Parts Manufactured	74
Publisher:	Machine-Building Latches
Number Printed:	90
Supporting Agency:	Ministry of Machine-Building, Specialization and Coop- eration in the Iron-Working Industry in the Integrated Economic Region.
Author(s): N. M. Marlik, O. V. Melnikovskiy	
Comments:	
Language:	Library of Congress
Editor(s):	96
Publisher:	
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Fayermah, A.I.

AUTHOR: Fayermah, A.I.

125-1-5/15

TITLE: Means of Reducing Costs for Welded Structures (Puti snizheniya sebestoimosti svarnykh konstruktsiy)

PERIODICAL: Avtomaticheskaya Svarka, 1958, # 1, pp 32 - 36 (USSR)

ABSTRACT: The article contains an analysis relating to the cost of seam welding performed by different welding methods and indicates some measures to be taken in order to reduce the cost of welded structures. The author states that the proportion of various expenditure items in the general cost of welded seams depends on the welding technology, the quality of welding material and the organization of production. Reference is made to a table containing the approximate composition of the cost of welded seams in different forms of welding and soldering of steel products.

The struggle for cost reduction must begin at the planning stage. The designers and technologists must produce structures which comply with modern welding methods. A selection of the construction technology should be economically proven.

The main factor in the cost reduction of welded seams is the increase of labor efficiency, which can be attained

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Means of Reducing Costs for Welded Structures

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by an introduction of the latest technics and technologies into the industry. Still better effects can be reached through the application of stationary welding equipment. The electro-slag welding method in heavy machinebuilding is an economical factor, as well as the use of automats and semi-automats. Labor efficiency can be raised by improving the technology of manual welding. Other efficient means of cost reduction is the modernization of obsolete equipment, and the economy of welding materials and electric power.

The following economical measures are being used in factories, relating to welding materials: the retention of established welding routines and dimensions of seams; a centralized, mechanized system of coiling electrode wire on spools with the aid of special instruments; the storage of electrode wire in a dry place on shelves, thus minimizing losses and preventing rusting; the improved construction of electrode holders used in manual welding for the purpose of reducing the amount of metal of the electrodes that is discarded; the collection of unfused flux with the aid of flux-suction devices; the transport and storage of fluxes in special metallic containers.

In respect to the economy of electric power, it is necessary that the power supply of each workshop be taken into consideration, and in the case of large workshops, by increasing the average load and improving as Φ of multioperator

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Means of Reducing Costs for Welded Structure

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welding sets when they are switched into parallel running.

An important factor of cost reduction is the application of new methods of organization in production. The mechanization of processes and the reduction of costs of welded constructions is limited by the lack of a centralized production of standard equipment.

A centralized flux and electrode production, as well as a reduced standardized number of types is needed.

There is one table and 8 Russian references.

ASSOCIATION: LPI imeni M.I. Kalinin (LPI imeni M.I. Kalinina)

SUBMITTED: 30 September 1956.

AVAILABLE: Library of Congress

Card 3/3

FAYERMAN, A.I.

Some indications of technical progress in welding practices
in the main capitalist countries. Trudy LPI no.199:169-175
'58. (MIRA 12:9)
(Electric welding—Equipment and supplies)

KONSON, Aron Solomonovich; SHERSHOV, S.F., dotsent, retsenzent; KAZOVSKIY,
Ye.Ya., kand.tekhn.nauk, retsenzent; FAYERMAN, A.I., dotsent, red.;
SOBOLEVA, Ye.M., tekhn.red.

[Economy of the electric industry of the U.S.S.R.] Ekonomika
elektrotekhnicheskoi promyshlennosti SSSR. Moskva, Gos.energ.
izd-vo, 1960. 296 p.
(MIRA 13:12)

1. Moskovskiy energeticheskiy institut (for Shershov). 2. Zavod
"Elektrosila" (for Kazovskiy).
(Electric industries)

FAYERMAN, Aron Iudovich; FINKEL'SHTEYN, S.A., nauchnyy red.; KLIMOVICH,
Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Economic aspects and organization of welding practices] Ekonomika i organizatsiya svarochnogo proizvodstva. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 94 p.

(MIRA 15:3)

(Welding--Accounting) (Industrial organization)

VELIKANOV, Karp Mironovich. Prinimali uchastiye: BARNASHEVA, G.K.;
GOLDOBIN, M.A.; ZOLOTUKHINA, G.A.; KARANDASHOVA, K.S.;
OL'KHOV, G.A.; SAVINA, V.N.; FAYERMAN, A.I.; SIRALIN, V.I..
iznsh., retsensent; NIKIFOROV, A.F., dotsent, red.; BORODULINA,
I.A., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Determining the economic efficiency of various methods for
machining parts] Opredelenie ekonomicheskoi effektivnosti
variantov mekhanicheskoi obrabotki detalei. Moskva, Mashgis,
1961. 211 p. (MIRA 14:12)

(Metal cutting)

FAYERMAN, A.I.

Limits of the economically efficient use of various welding methods. Trudy LPI no.216:169-181 '61. (MIRA 14:11)
(Welding—Costs)

FAYERMAN, A.I., kand.ekonom.nauk; REZANOV, A.N., inzh.

Economic analysis of alternate ways for the prevention of
welding deformations. Svar. proizv. no.9:17-20 S '61.
(MIRA 14:8)

(Welding—Accounting)
(Thermal stresses)

FAYERMAN, A.I., kand.ekonom.nauk

Economic evaluation of the efficiency of welded structures. Svar.
proizv. no.1:16-18 Ja '62. (MIRA 15:3)

1. Leningradskiy polteknicheskiy institut im. Kalinina.
(Structural frames--Welding)

FAYERMAN, A.I.

Economic aspect of semiautomatic welding in carbon dioxide.
Avtom. svar. 17 no.4:84-89 Ap '64 (MIRA 18:1)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina.

FAYERMAN, A.I.

Method of determining the expected requirements of the national
economy in welding engineers. Avtom. svar. 17 no.8:82-87 Ag '64.
(MIRA 17:11)

1. Leningradskiy politekhnicheskiy institut.

FAYERMAN, A.I., kand.ekonom.nauk

Determining the economic efficiency of technical solutions in welding.
Svar.proizv. no.11:18-19 N '64. (MIRA 18:1)

1. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina.

FAYERMAN, A.L.

Emergency drainage of transformer oil. Prom. energ. 19 no.68
45-46 Je'64 (MIRA 17e7)

FAYERMAN, Aron Iudovich; ZVEGINTSEVA, K.V., inzh., retsenzent;
BREYTMAN, M.M., nauchn. red.; IONOV, V.N., red.

[Economics and the organization of welding production]
Ekonomika i organizatsiia svarochnogo proizvodstva.
Moskva, Vysshiaia shkola, 1965. 98 p. (MIRA 18:7)

FAYERMAN, A.I.

Methodological problems of the economic evaluation of technical
solutions in welding. Trudy LPI no.245,102-106 '65.
(MIRA 18:8)

VISHNEVSKIY, Vladimir Aleksandrovich; FAYERMAN, A.L., red.;
USTINOV, P.I., red.

[Design of district step-down substations] Proektirovaniye
raionnykh ponisitel'nykh podstantsii. Moakva, Energia,
1965. 134 p. (MIRA 18:4)

1. Zamestitel' nachal'nika Tekhnicheskogo upravleniya po
ekspluatatsii energosistem Gosudarstvennogo proizvodstven-
nogo komiteta po energetike i elektrifikatsii SSSR (for
Fayerman).

FAYERMAN, A.B., inshener.

Remarks on A.A.Kaplan, I.N.Koloskov, and E.P.Parini's article.
Elek.sta. 25 no.8:48 Ag '54. (MLRA 7:9)
(Electric cables--Standards) (Electric wire--Standards)

FAYERMAN, A. L.

AID P - 3339

Subject : USSR/Power Engineering

Card 1/1 Pub. 26 - 25/28

Author : Faerman, A. L., Eng.

Title : Conference on processes and use of equipment in network repair work

Periodical : Elek. sta., 8, 57-59, Ag 1955

Abstract : A report on the conference held in May in Moscow gives the names and lectures of the participants, mostly members of repair work organizations. The article also reports on the slowness and/or unsatisfactory quality of repair work in certain power systems.

Institution : None

Submitted : No date

GORODNETSKIY, Sergey Sergeyevich; FAYERMAN, A.L., redaktor; LARIONOV, G.Ye.,
tekhnicheskiy redaktor

[Testing cables with impregnated paper insulation] Ispytaniia kablei
s propitannoi bumashnoi isolatsiei. Izd. 2-oe, perer. Moskva,
Gos. energ. izd-vo 1956. 191 p.
(MLRA 10:1)
(Electric cables--Testing)

54-1000-44-

~~MAYERMAN, A.I.~~, red.; VORONIN, K.P., tekhn.red.

[Instructions for installing electric equipment] Pravila ustroistva
elektrostanovok. Moskva, Gos.energ.izd-vo. Section 3. [Protection
and automatic equipment] Zashchita i avtomatika. 1957. 62 p.
(MIRA 11:1)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostanteii.
(Electric engineering--Safety measures) (Automatic control)

FAYERMAN, A.L., redaktor; LARIONOV, G.Ye., tekhnicheskij redaktor

[Regulations for installation of electric equipment] Pravila
ustroistva elektrostanovok. Moskva, Gos.energ. izd-vo Se.1.
[General regulations] Obshchie pravila. 1957. 141 p. (MLRA 10:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy
(Electric engineering)

LITVAK, Lev Veniaminovich, kandidat tekhnicheskikh nauk; FAYERMAN, A.L.,
redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor

[Increasing the coefficient of efficiency in industrial enterprises]
Povyshenie koefitsienta moshchnosti na promyshlennyykh predpriatiyakh.
Izd. 2-oe, perer. i dop. Moskva, Gos.energ.izd-vo 1957. 911 p.
(Efficiency, Industrial) (MLRA 10:7)
(Machinery in industry)

FAYERMAN, A.L.

FAYERMAN, A.L., red.; VORONIN, K.P., tekhn.red.

[Instructions for installing electric equipment] Pravila ustroistva elektroustanovok. Chapter VII-3. [Electric equipment for explosion-hazard buildings and exterior installations] Elektrooborudovanie vzyvoopasnykh pomeshchenii i narushnykh ustanovok. Chapter VII-4. [Electric equipment for fire-hazard buildings and exterior installations] Elektrooborudovanie pozharoopasnykh pomeshchenii i na-rushnykh ustanovok. Moskva, Gos.energ.izd-vo, 1958. 39 p.

(MIRA 12:4)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy.
(Electric engineering--Safety measures)

KALIN, Nikolay Fedorovich; KAZANTSEV, Mikhail Lavrovich; FAYERMAN, A.L.,
red.; MATVEYEV, G.I., tekhn.red.

[Planning and preliminary engineering of 3-35 kv electric
transmission cables] Isyananie i proektirovanie kabel'nykh
linii elektroperedachi 3-35 kv. Moskva, Gos.energ.izd-vo,
1958. 190 p. (MIRA 12:2)
(Electric lines--Underground)

Лев Петрович Подольский

SYROMYATNIKOV, I.A.; GRUDINSKIY, P.G.; PETROV, I.I.; KOROL'KOVA, V.I.;
SERBINOVSKIY, G.V.; BOL'SHAM, Ya.M.; LIVSHITS, D.A.; FAYERMAN, A.L.
NAYFELD, M.P.; ZHIVOV, M.S.; ONKIN, A.K. (Moskva)

Candidate of engineering L. P. Podol'skii. Elektrichesvo no.1:96
Ja '58. (MIRA 11:2)
(Podol'skii, Lev Petrovich, 1887)

FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn.red.

[Rules for the installation of electrical equipment] Pravila
ustroistva elektrostanovok. Moskva, Gos.energ.izd-vo. Chapter
II-2. [Conductors for currents up to 35 kv.] Tokoprovody napriazhe-
niem do 35 kv. 1959. 7 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy.
(Electric wiring)

RIBIKIN, Boris Pavlevich; DEMKOV, Ye.D., red.; DOLGOV, A.N., red.;
YEZHKOV, V.V., red.; SMIRNOV, A.D., red.; USTINOV, P.I., red.;
FAYERMAN, A.L., red.; LARIONOV, G.Ye., tekhn.red.

[Concealed electric wiring] Skrytye elektreprovodki. Moskva,
Gos.energ.-izd-vo, 1959. 38 p. (Biblioteka elektremonta, no.9).
(MIRA 13:6)

(Electric wiring)

FAYERMAN, A.L., red.; LARIONOV, G.Ye., tekhn.red.

[Rules for the installation of electric equipment] Pravila
ustroistva elektrostanovok. Moskva, Gos.energ.izd-vo.
Sec.6. [Electric lighting] Elektricheskoe osveshchenie.
1959. 45 p. (MIRA 12:6)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy.
(Electric lighting--Installation)

PAYERMAN, A.L., red.; BORUNOV, N.I., tekhn.red.

[Rules for installing electric equipment] Pravila ustroistva
elektrostanovok. Moskva, Gos.energ.izd-vo. Chapter II-4.
[Overhead transmission lines up to 1,000 v.] Vozdushnye limii
elektroperedachi napriazheniem do 1000 v. Chapter II-5.
[Overhead transmission lines above 1,000 v.] Vozdushnye limii
elektroperedachi napriazheniem vyshe 1000 v. 1959. 63 p.
(MIRA 12:11)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii.
(Electric lines--Overhead)

PAYKRMAN A. L.

BARANOV, Boris Mikhaylovich; PONLAD, Petr Grigor'yevich; SMIRNOV, Leonid
Petrovich; FOMICHEV, Grigoriy Ivanovich; FRIDKIN, Iosif Aronovich;
PAYKRMAN, A.L., red.; BORUNOV, N.I., tekhn.red.

[Construction and use of cable lines] Sbornikanie i ekspluatatsiya
kabel'nykh linii. Moskva, Gos.energ.izd-vo, 1959. 542 p.
(MIRA 13:3)

(Electric cables)

AVINOVITSKIY, Inar Yakovlevich; FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn.
red.

[Connection of cables] Soedinenie kablei. Moskva, Gos. energ. izd-vo,
1960. 44 p. (Biblioteka elektromontera, no.40)

(MIRA 14:7)

(Electric cables)

FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Regulations for the installation of electrical systems;
Chapter IV-3: Converter substations; chapter IV-4: Storage
battery systems] Pravila ustroistva elektrostanovok; glava
IV-3: Preobrazovatel'nye podstantsii; glava IV-4: Akkumu-
liatornye ustanovki. Moskva, Gosenergoizdat, 1961. 19 p.
(MIRA 15:12)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravle-
niye.
(Electric power distribution) (Electric substations)

FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Regulations for the installation of electrical systems; Chapter V-1: Electrical machinery rooms; chapter V-2: Electric generators and synchronous compensators; chapter V-6: Condenser systems] Pravila ustroistva elektroustanovok; glava V-1: Elektromashinnye pomeshcheniya; glava V-2: Generatory i sinkhronnye kompensatory; Glava V-3: Elektrosvigateli i puskoreguliruiushchie apparaty; glava V-6: Kondensatornye ustanovki. Moskva, Gosenergoizdat, 1961. (MIRA 15:11)
38 p.

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye.
(Electric power distribution) (Electric machinery)

FRIDKIN, Iosif Aronovich; FAYERMAN, A.L., red.; SHIROKOVA, M.M.,
tekhn.red.

[Laying cable lines in the ground] Prokladka kabel'nykh linii
v zemle. Moskva, Gosenergoizdat, 1961. 55 p. (Biblioteka
elektromontaera, no.59) (MIRA 15:5)
(Electric cables) (Earthwork)

MASHKOVSKIY, V.V.; ROZENBERG, Ya.G.; FAYERMAN, A.L.

Concerning the joint suspension of electric power distribution lines
and wire broadcasting lines on the same poles. Prom.energ. 16
no.11:50-51 N '61. (MIRA 14:10)

1. "Pervomayneft" (for Mashkovskiy). 2. Ministerstvo svyazi
SSSR (for Rosenberg). 3. Soyuzglavenergo (for Fayerman).
(Electric lines—Overhead) (Radio lines)

LINDORF, L.S.; FUFURIN, P.N.; ULITSKIY, M.S.; USTINOV, P.I.;
ZEYLIDZON, Ye.D.; MININ, G.P.; KOTS, A.Ya.; KHAVIN, N.Z.;
MURAVLEVA, N.V.; LIBERMAN, A.Ya.; BARANOV, B.M.; ZVENIGORODSKIY,
I.S.; IVANOV, V.S.; IOFFE, F.Ye.; BURLAKOV, B.M.; MIRENBURG,
L.A.; FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Study manual on the technical operation of electric networks
and power plants; electrical section of electric power plants
and electric power distribution networks] Posobie dlia izuchen-
iya pravil tekhnicheskoi ekspluatatsii elektricheskikh stantsii
i setei; elektricheskaya chast' elektrostantsii i elektricheskie
seti. Moskva, Gosenergoizdat, 1962. 558 p. (MIRA 15:8)
(Electric power plants—Handbooks, manuals, etc.)
(Electric power distribution—Handbooks, manuals, etc.)

LUK'YANOV, Tikhon Petrovich; GERR, A.D., retsenzent; ARTSYSHEVSKIY, L.I., retsenzent; BIKKENIN, I.Kh., retsenzent; LEZNOV, S.I., nauchnyy red.; FAYERMAN, A.L., red.; TOKER, A.M., tekhn. red.

[Adjustment of electrical systems]Naladka elektroustanovok. Moskva, Proftekhizdat, 1962. 618 p. (MIRA 15:9)
(Electric apparatus and appliances) (Electric measurements)
(Electric engineering—Safety measures)

FAVERMAN, A.L., red.

[Ventilators, exhaust fans, and blowing machines; a catalog of equipment for the cement industry] Ventiliatory, dymososy, vozdukhoduvki; katalog oborudovaniia tsementnoi promyshlennosti. Leningrad, 1962. (MIRA 17:10)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy i proyektornyy institut tsementnoy promyshlennosti.

FAYERMAN, A.L.

The fourth scientific and technical session on municipal electric
power distribution networks. Elektrичество no.12:86-87 D '62.
(MIRA 15:12)
(Electric power distribution)

FAYERMAN, A.L., red.; YEMZHIN, V.V., tekhn. red.

[Temporary directives on the calculation of the foundations of overhead power-transmission line towers] Vremen-
nye rukovodiashchie ukazaniia po raschētu fundamentov opor
vоздушnykh linii elektroperedachi. Moskva, Gosenergoizdat,
1962. 37 p.
(MIRA 16:2)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye uprav-
leniye.
(Electric lines--Poles and towers)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6

FAYERMAN, A.L., imah.

Regulations for the installation of electrical systems.
Prom. energ. 17 no.11:26-28 N '62. (MIRA 15:12)
(Electric power distribution)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6"

GUDUSHAURI, Irakliy Iosifovich; DZHIOYEV, Lev Nikolayevich;
~~EAYERMAN, A.L.~~, red.; BORUNOV, N.I., tekhn. red

[Study of the performance of the foundations of power
transmission line supports in uncemented rock] Issledova-
nie raboty fundamentov opor linii elektroperedachi v neskal'-
nykh gruntakh. Moskva, Gosenergoizdat, 1963. 151 p.
(MIRA 17:1)

GRIGOR'YEV, Yuriy Yevgen'yevich; ZIL'MERMAN, Rafail Isaakovich;
KOSHKAROV, Boris Vladimirovich; MERMAN, Isaak Abramovich;
REUT, Mikhail Antonovich; FAYERMAN, A.L., red.;
BUL'DYAYEV, N.A., tekhn. red.

[Handbook on the construction of electric power transmission lines] Spravochnik po stroitel'stvu linii elektroperedachi. Pod obshchey red. A.D.Romanova. Moskva, Gosenergoizdat, 1963. 488 p. (MIRA 17:1)
(Electric lines--Overhead)

FAYERMAN, A.L.

Norms in the testing of GTSk cables. Prom.energ. 19 no.7:58-59
(MIRA 18:1)
J1 '64.

LINDORF, L.A.; FUFURIN, N.P.; ULITSKIY, M.S.; USTINOV, P.I.;
ZEYLIDZON, Ye.D.; MININ, G.P.; KOTS, A.Ya.; KHAVIN, N.Z.;
MURAVLEVA, N.V.; LIBERMAN, A.Ya.; BARANOV, B.M.;
ZVENIGORODSKIY, I.S.; IVANOV, V.S.; IOFFE, F.Ye.
[deceased]; BURLAKOV, B.M.; MIRENBURG, L.A. [deceased];
FAYERMAN, A.L., red.

[Aid for studying engineering regulations governing the
operation of electric power plants and networks] Posobie
dlia izucheniiia pravil tekhnicheskoi ekspluatatsii elektri-
cheskikh stantsii i setei. Izd.2., peresmotrennoe. Mo-
skva, Energiia, 1965. 551 p. (MIRA 18:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy proizvodstven-
nyy komitet po energetike i elektrifikatsii.

FRIDKIN, Iosif Aronovich; FAYERMAN, A.L., red.

[Operation of 1-35 kv. cable lines] Ekspluatatsiia kabel'-nykh linii 1-35 kv. Moskva, Izd-vo "Energiia," 1964. 87 p.
(Biblioteka elektronera, no.111) (MIRA 17:4)

FAYERMAN, A.L., red.

[Regulations for the installation of electrical systems]
Pravila ustroistva elektroustanovok. Izd.3., perer. i dop.
Moskva, Izd-vo "Energiia," 1964. 455 p. (MIRA 17:5)

1. Russia (1923- U.S.S.R.) Tekhnicheskoye upravleniye po
ekspluatatsii energosistem.

FAYERMAN, A.L., red.

[Regulations for the installation of electrical systems]
Pravila ustroistva elektroustanovok. Izd.4. Moskva,
Energiia, 1965. 463 p. (MIRA 18:8)

1. Russia (1923- U.S.S.R.) Tekhnicheskoye upravleniye
po ekspluatatsii energosistem.

IVANOV, Vasiliy Sergeyevich; SEREBRYANSKIY, Feliks Zinov'yevich;
FAYERMAN, A.L. red.

[Gas and oil systems of hydrogen-cooled generators] Gazo...
maslichnoe khoziaistvo generatorov s vodorodnym okhlazhdaniem.
Moskva, Energiia, 1965. 286 p. (MIR, 18:8)

FAYERMAN, Aron Yudovich; RYZHAKOV, V.N., inzh., retsenzent; KONSON, A.S.,
kand. ekon. nauk, red.; LEYKINA, T.L., red. izd-va; SHCHETININA,
L.V., tekhn. red.

[Selecting an economical variant of the welding process] Vybor
ekonomichnogo varianta protsessa svarki. Moskva, Mashgiz, 1962.
(MIRA 15:6)
127 p.

(Welding--Costs)

FayEr man, B.A.

5/13/66/CCC/05/02/016
B013/0011

AUTHORS: Klimashchenko, A. N., Vinokur, S. B., Antonov, G. I., Likhovich, B. D., Molchanova, I. N., Paynevskii, S. A., Tsvetko, N. N.

TITLE: Magnesite Bricks for Checkersworks of Regenerator in Open-hearth Furnaces

PUBLICATION: Osnopuyt, 1960, No. 5, pp. 197-207

TEXT: A. S. Frankel found out that the cause underlying the loosening of magnesite bricks hitherto used in gas regenerator checkersworks is in the change taking place in the volume of iron oxides contained in them. This is particularly felt in an increased magnesia-to-iron content ratio at a temperature of over 500°C (Fig. 1). Magnesite has a higher heat conductance number (Fig. 2) and a higher heat capacity (Fig. 3) than fire-clay and alumina clay. A. S. Frankel, K. M. Shumikhin of the Ukrainian Institute of Refractories (Ukrainian Institute of Refractories) tested magnesite bricks in regenerator checkersworks. Bricks 380X350X15 mm large were produced by the open-hearth sintering

Card 1/3

method (test Plant UPIIO). Table 1 shows the characteristics of magnesite products before their utilisation, and table 2 after utilisation with parts of them used in the unburned state. In gas regenerator checkersworks, these bricks showed good stability, and no important differences were found between burned and unburned products. With a view to conducting comprehensive operational tests, a set of 120 tons of burned and unburned small-size bricks 380X350X15 mm large was produced under the supervision of A. G. Frankel. At the site independently sited in K. Karkas (Panтелеймоновка, Voronezh region) in accordance with the standards of the test Plant, V. V. Zhdanov and A. S. Frankel conducted a series of tests on the strength of magnesite products with specifications laid down by the Panтелеймонovka Works. The unusual magnesite powder to the grain size of which is specified in the table, was used for the purpose. Table 4 describes the raw material and the weight by volume of brick clays, and table 5 shows the properties exhibited by the experimental sets. After 345 million cycles in a gas regenerator of a 370-ton open-hearth furnace both unburned and burned magnesite bricks were in good condition (Figs. 4 and 5). Table 6 shows the indices of the furnace performance with magnesite and fire-clay checkersworks. Tables 7 and 8 show the chemical composition of the bricks after their use, as well as the

Card 2/3

sample of the petrographic analyses conducted by N. Ye. Drishner. No difference was found between burned and unburned bricks (Fig. 6). It is stated in conclusion that metallurgical magnesite powder products with low iron oxide content do not loosen up in gas regenerator checkersworks of open-hearth furnaces and exhibit high stability. Also checkersworks of open-hearth furnaces and regenerators of 370-ton furnaces, for which the oxygen technology was used, exhibited high stability. There are 6 tables, and 1 figure reference.

Card 3/3

L-37658-66 EWF(c)/ENF(k), ENT(d)/ENT(m)/T/ENP(l), ENP(v)
ACC NR: AP6028859

SOURCE CODE: UR/0032/66/032/001/0126/0128

52
B

AUTHOR: Fayerman, B. S.

ORG: none

TITLE: Fourth All-Union Scientific and Technical Conference on Quality Control and Nondestructive Testing

SOURCE: Zavodskaya laboratoriya, v. 32, no. 1, 1966, 126-128

TOPIC TAGS: scientific conference, quality control, nondestructive test, research program, radiation detection, scientific personnel

ABSTRACT: The author gives a brief summary of the work accomplished at the

Fourth All-Union Scientific and Technical Conference on Quality Control and Nondestructive Testing held 14-16 Oct 65 in Kishinev and attended by approximately 600 people. The work was divided into three sections: flaw detection

by x-ray and gamma-ray methods, ultrasonic flaw detection and electromagnetic

flaw detection with subsections devoted to electroinductive and magnetic methods.

Two new scientific research institutes were organized in the period between the third and fourth conferences: the All-Union Scientific Research Institute for

Nondestructive Testing of the Material Quality (VNIINK) in Kishinev and the Scientific Research Institute of Introscopy (NIIIN) in Moscow. The opening

address was given by P. K. Oshchepkov who outlined the basic problems in development of means for internal inspection and flaw detection. He emphasized

the need for more intensive use of the various forms of penetrating radiation:

Microwaves, neutron beam, x-rays and infrared rays. The names of the principal speakers in the various sections are given together with the topics of their

reports. [JPRS: 35,432]

SUB CODE: 13, 05 / SUBM DATE: none

Card 1/1 max

0917

2323

FAYERMAN, D.R.

Effective cleaning of the premises from contamination with mercury.
Fel'd. i akush. 28 no.3:45-47 Mr'63. (MIRA 16:7)

1. Pomoshchnik promyslennogo sanitarnogo vracha Sanitarno-epidemiologicheskoy stantsii Kalininskogo rayona Moskvy.
(MERCURY—TOXICOLOGY) (INDUSTRIAL HYGIENE)

AUTHORS:

Fayerman, D. V., Ol'shanskiy, L. P.

SOV/32-24-8-11/43

TITLE:

A Galvanometric Method for Controlling the Process of Paraffin Oxidation (Gal'vanometricheskiy metod kontrolya protsessov okisleniya parafina)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr. 8, pp. 947-949
(USSR)

ABSTRACT:

The present methods for determining the oxidation of paraffins which measure the increase in acidity, are inexact because of the tendency of the oxidation rate to vary considerably during the period of investigation. The viscometric method of S.S. Velikovskiy and O.S. Kuz'menkova (Ref 1) is likewise time-consuming. A control method is given in this paper which is based upon the direct relationship between the conductivity and the extent of oxidation of the paraffins. A diagram of the apparatus used to measure the conductivity is given. The electrodes are of rust-proof steel (27. 53 mm); they are set 4.5 mm apart, and a direct current potential of 500 volts is put across them. Since the conductivity of the oxidation product varies with temperature the laboratory measurements were taken at definite temperatures, depending on the

Card 1/2

A Galvanometric Method for Controlling the
Process of Paraffin Oxidation

SOV/32-24-8-11/43

working conditions. Temperature corrections were based on tables used in the laboratory, since this was found to be a valid method. For the use of this method of continuous control in chemical plants a schematic representation of the arrangement is given. The dimensions of the electrodes and the distance between them must be increased proportionally for industrial use.
There are 4 figures.

ASSOCIATION: Osipenkovskiy opytnyy neftemaslozavod i zavod "Azovkabel'" "(Osipenkovskiy Experimental Oil Machinery, and the "Azovkabel'" Factory)

CABO 2/2

66971

SOV/32-25-11-55/69

20(4) 15.6000

AUTHOR: Fayerman, D. V.

TITLE: Device for Evaluation of the Adhesiveness of Solid Lubricants

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 11, p 1396 (USSR)

ABSTRACT: The methods applied at present to determine the adhesiveness of solid lubricants (GOST 6037-51, GOST 6958-54 and others) are inadequate. For this reason a new method was worked out and tested which is a modification of the method suggested by Finlayson and Mc Carthy (Ref 1). Principally, the device (Fig) consists of a small electric motor mounted on a stand, a smooth metal disk (diameter 40 mm) being attached in horizontal position to the perpendicular motor shaft. A tin cap, fixed to the stand, covers the metal disk to protect it from lubricant spattered during the test. To test a lubricant, a layer of it, 0.2 mm thick, is applied to the detached metal disk and weighed to precisely 0.0002 g. After remounting the metal disk on the motor shaft, the motor is run for three minutes at a certain speed of rotation. If the weight of the lubricant has remained constant, the test is repeated at a higher speed of rotation. The adhesion of the lubricant is calculated from the difference in weight before and after the test by means of an equation.

Card 1/2

66971
SOV/32-25-11-55/69
Device for Evaluation of the Adhesiveness of Solid Lubricants

There are 1 figure and 1 reference.

ASSOCIATION: Berdyanskiy opytnyy neftemaslozavod
(Berdyanskiy' Experimental Plant of Oils and Petroleum)

Card 2/2

FAYERMAN, D.V.

Operation of oxidation equipment and the production of lubricants
based on synthetic fatty acids at the Berdyansk Petroleum Oil Plant.
Proizv. smaz. mat. no.6/8:60-63 '61. (MIRA 14:8)

1. Berdyanskiy neftemaslozavod.
(Berdyansk--Lubrication and lubricants) (Acids, Fatty)

S/065/63/000/001/005/005
EC75/E436

AUTHORS: Fayerman, D.V., Chigrin, O.S.

TITLE: Complexometric determination of barium in lubricating oil additives

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.1, 1963,
64-65

TEXT: Due to unsatisfactory colour change during direct titration of Ba ions with Trilon B in the presence of acid chrome blue-black indicators, the method was modified whereby the excess of Trilon B is back titrated. The back titration is carried out with a 0.02 N $MgCl_2 \cdot 6H_2O$ or $MgSO_4 \cdot 7H_2O$ solution. Good results are obtained especially for dilute ($\sim 0.001 M$) solutions of Ba. The modified method was used successfully (giving results agreeing well with gravimetric method ГОСТ 7187-58 (GOST 7187-58) for the determination of Ba in ЦИАИМ-339 (TsIATIM-339) and АзНИИ-ЦИАИМ-1 (AzNII-TsIATIM-1) additives.

ASSOCIATION: Berdyanskiy opytnyy neftemaslozavod
(Berdyansk Experimental Refinery)

Card 1/1

FAYERMAN, D.V.; CHIGRIN, D.S.

Complexometric method of determination of copper in petroleum
products. Trudy BORISZ no.1:31-35 '63. (MIRA 16:6)

(Copper--Analysis)
(Petroleum products--Analysis)

FAYERMAN, D.V.; CHIGRIN, D.S.

New method of determination of the soap content of calcium
lubricants. Trudy BONMZ no.1:35-38 '63. (MIRA 16:6)

(Lubrication and lubricants)
(Soap--Analysis)

FAYERMAN, D.V.; CHIGRIN, D.S.

Complexometric determination of barium in additives to lubricating oils. Khim.i tekhnopl.i mazel 8 no.1:64-65 Ja '63.
(MIRA 16:2)

1. Berdyanskiy optychnyy neftemaslozavod.
(Barium—Analysis)
(Lubrication and lubricants—Additives)

FAYERMAN, D.V.

Method of analysis of soluble oil emulsions by titration in
nonaqueous solvents. Khim.i tekhnopl.i masel 8 no.8:54-56
Ag '63. (MIRA 16:9)

1. Berdyanskiy neftemaslozavod.
(Emulsions--Analysis) (Solvents)

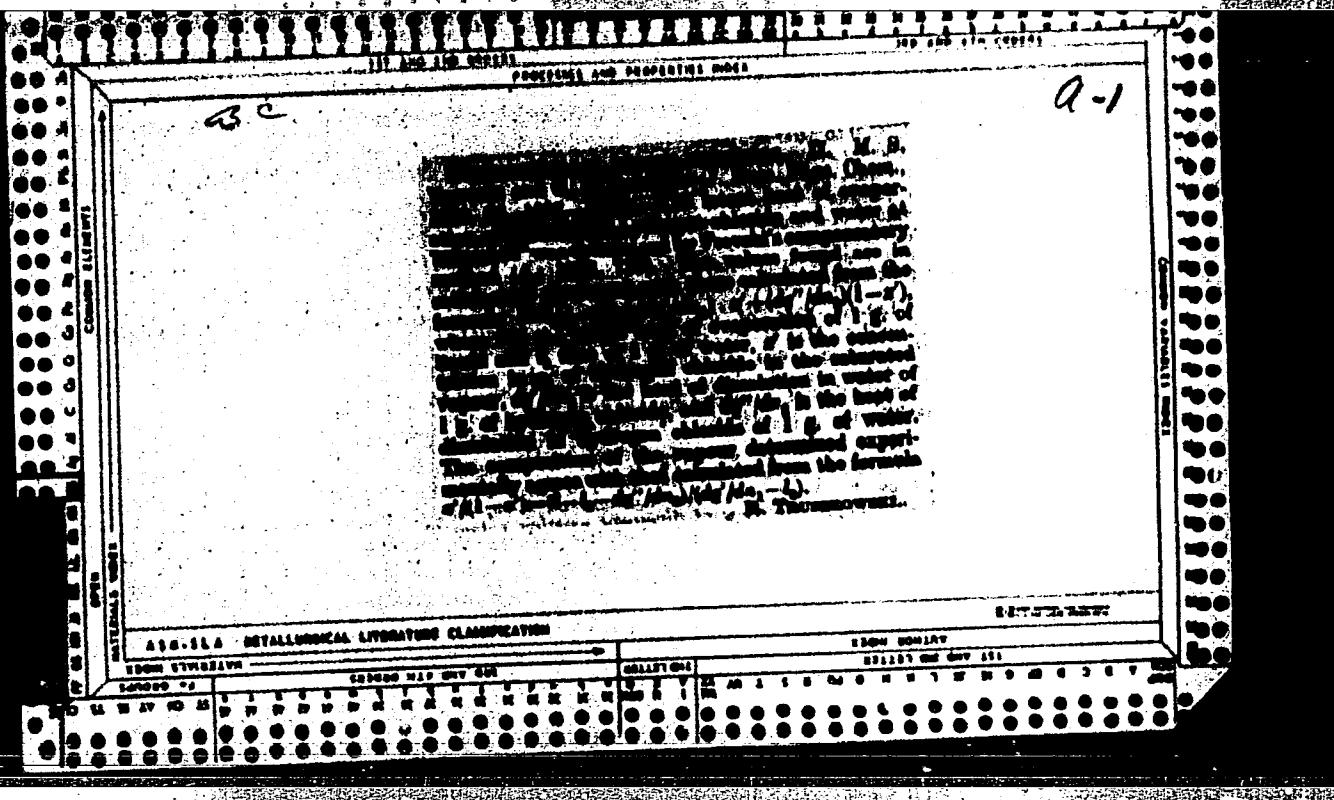
FAYERMAN, D.V.; CHIGRIN, D.S.

Complexometric determination of manganese catalysts in paraffins.
Zav.lab. 30 no.3:288 '64. (MIRA 17:4)

1. Berdyanskiy optynyy nefte-masloboynyy zavod.

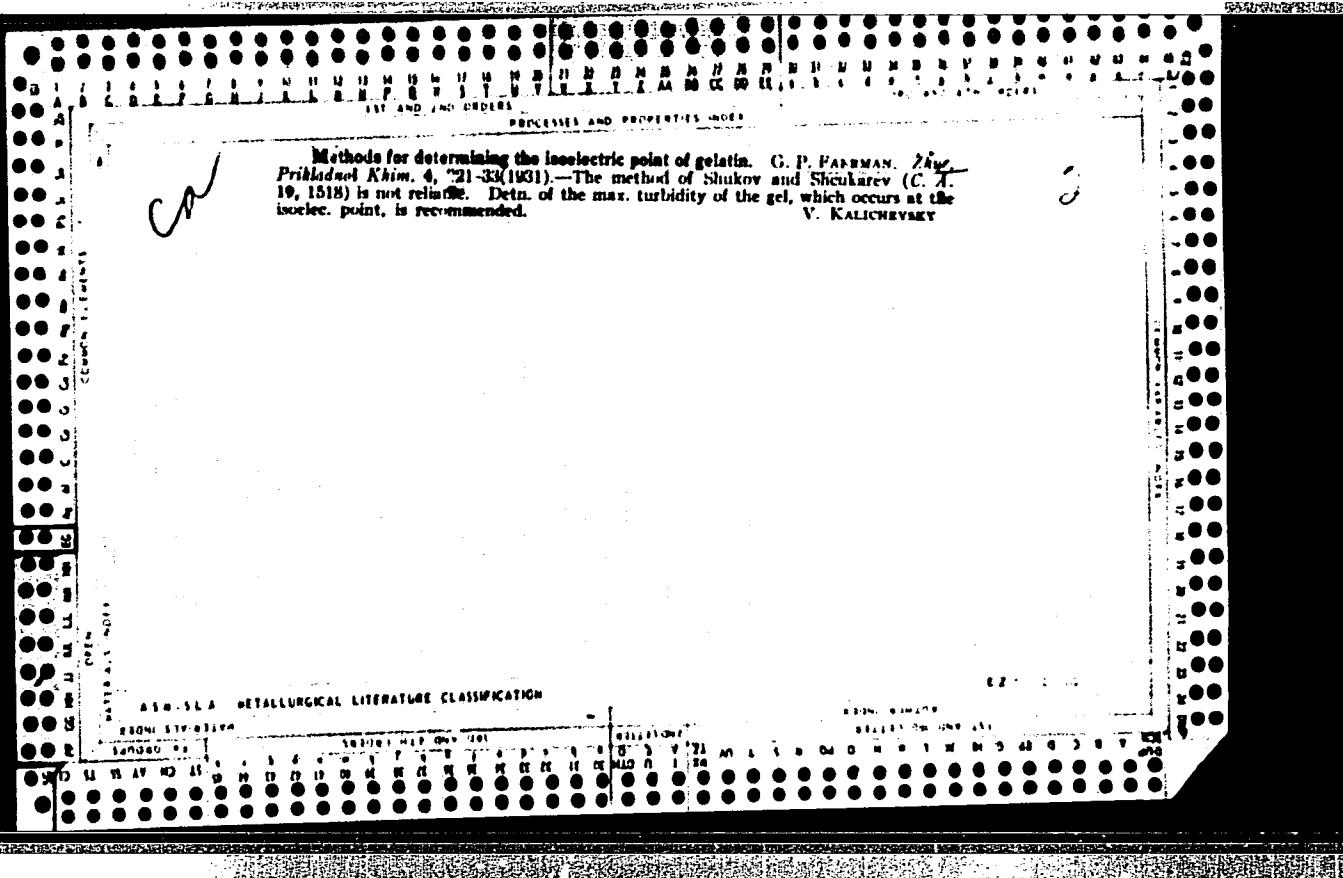
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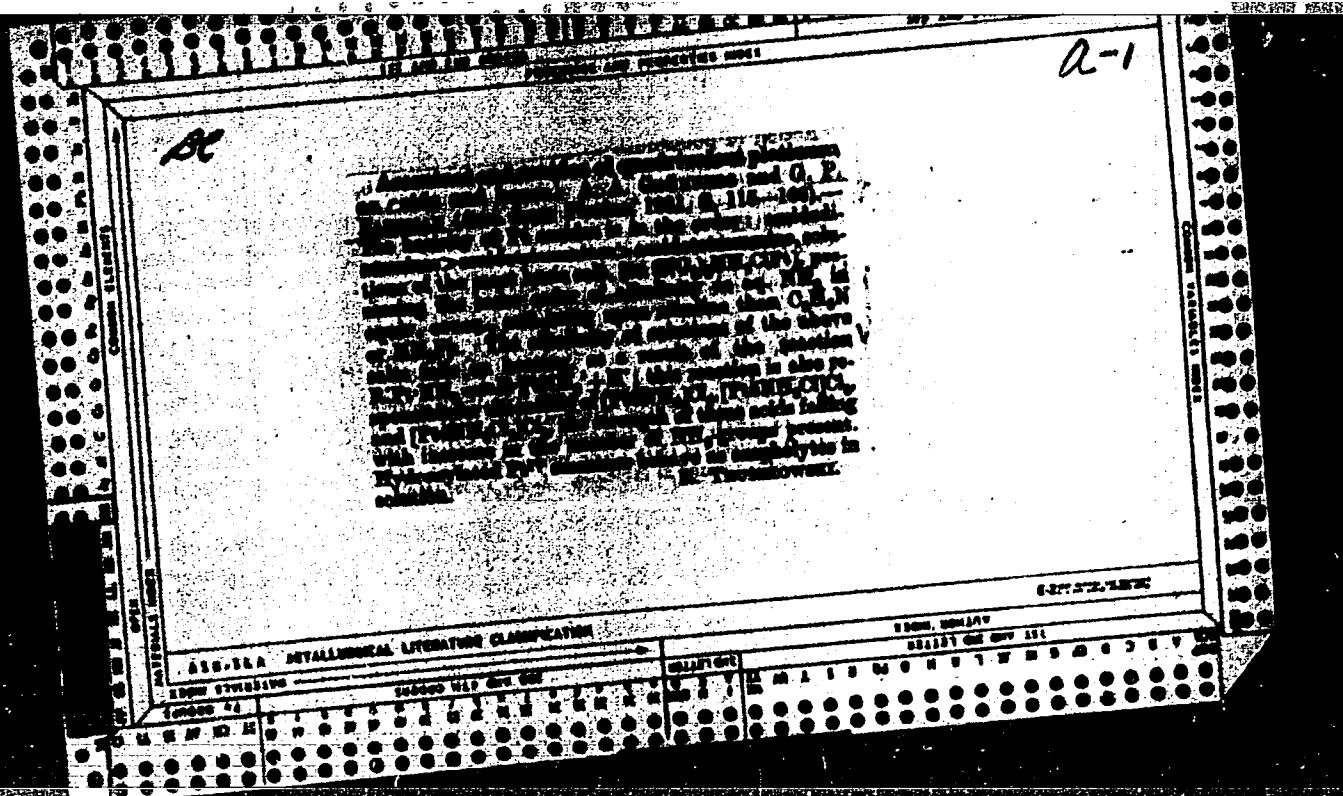
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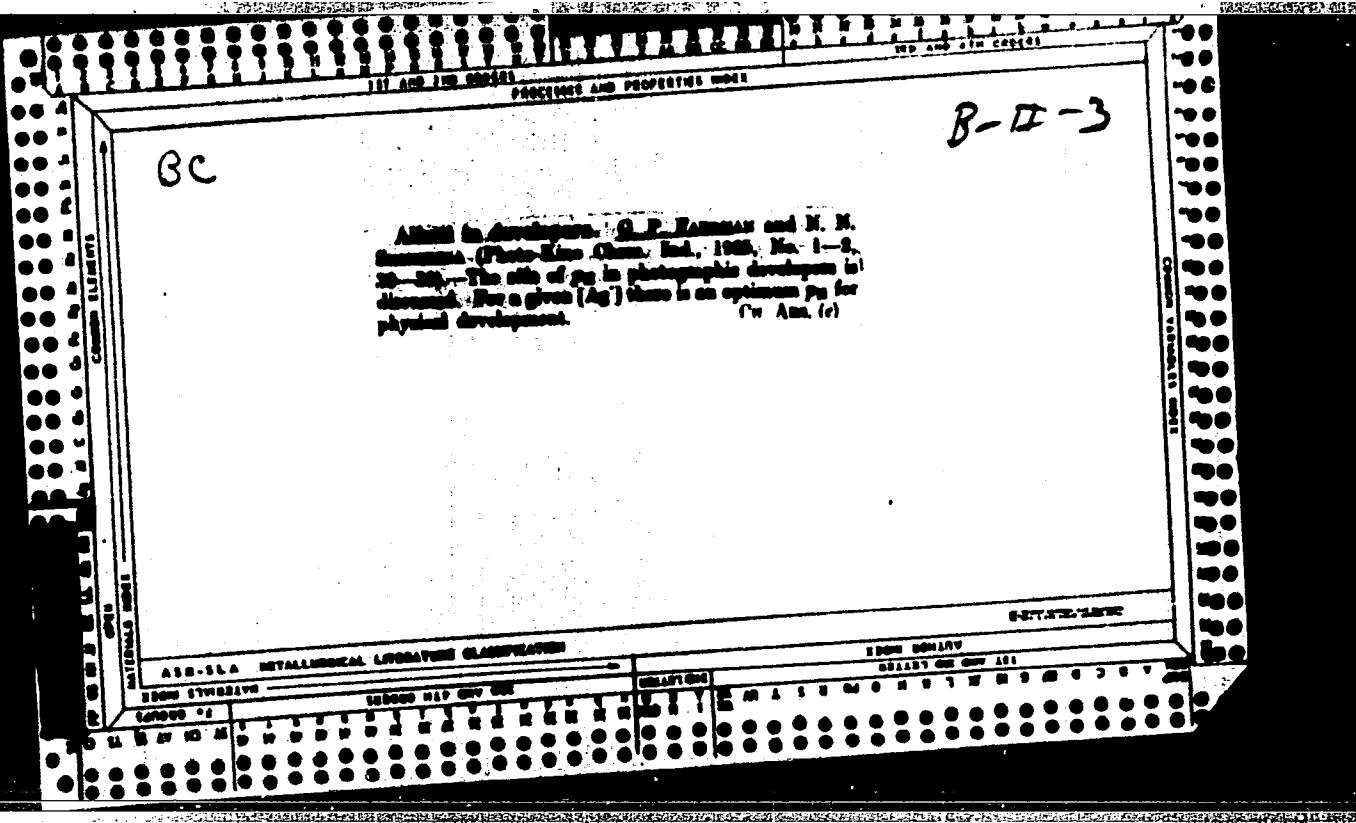
The role of alkali in (photographic) development. G. P. BARNARD AND N. N. SHIBUKAWA. *J. Phys. Chem.* (U. S. S. R.) 3, 390-415 (1933).—Developer action is independent of the particular alkali used but dependent on the H-ion concn. NaOH, KOH, NaClO₂, K₂C₈H₅O₄ with borate, phosphate and acetate buffers and a metal developer were used. Buffer action data, the constancy of action of the developer. Six tables and six graphs give the results. V. H. RATHMANN

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The function of alkali in a developer. II. Physical developing. G. P. Fermann and N. N. Shishkina. *J. Phys. Chem.* (U.S.S.R.), 43(1934); cf. *C. A.* 29, 1422. —With const. Ag⁺ concn., the rate of phys. development and the rate of reduction of the Ag⁺ in solution decrease or increase with decreasing or increasing μ_{Hg} . For each Ag⁺ concn. in the soln. there is an optimum μ_{Hg} for the developer. If the systems Ag⁺/Ag and oxidation-reduction have the same p. d., the velocity of development is independent of the μ_{Hg} , only no longer drawn out by development do factors other than μ_{Hg} , such as concn. of Ag⁺, loss of developer, of acid anions, etc., have any effect. The expts. were carried out mainly on "AgI" films with metacitric acid developers in a μ_{Hg} from 1.0 to 3.0. III. An iron developer. *Ibid.* 44, 5. In a ferro-ferric oxalate developer the developing influence remains const. over the same interval of μ_{Hg} as does the oxidation-reduction potential, i. e., from $\mu_{\text{Hg}} = 4.7$.

F. H. Rathmann



Colloidal suspensions of hematite for the construction of polarizing luminous stones. D. A. Codina and G. P. Eakman. *J. Applied Chem. (U. S. S. R.)* 14, 363-7 (1941).—For the prep. of a polarizing film the hematite crystals must be small, and needle-shaped, and the dispersion medium must fix the crystals in an oriented position, and must be homogeneous, colorless, transparent and chemically inert to hematite. A satisfactory suspension was prep'd. by adding to a viscous soln. of pyroxylon in MeOH and Cel, first an alc. soln. of quinine bisulfate and then a 20% soln. of I in MeOH, contg. small amts. of acetone. To this mass were added plasticizers (castor oil and dibutyl phthalate) to control the coagulation of the mass. The process is described in great detail. 11 references. A. A. Bochtingk

13

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6"

FAIERMAN, G. P.

"Optical Properties of Polarization Light Filters," Zhur. Tekh. Fiz.,
14, No3. 4-5, 1944

State Optical Inst.

FAYERMAN, G.P.
FAYERMAN, G. P.

Military assignment of photography.

An article found in "Optics for Military Use", Part I, published by the
USSR Academy of Science, Moscow, 1945.

ANDRONNIKOV, K.S.; BALAKOV, V.V.; BUZHINSKIY, A.N.; BURAGO, A.N.; VEETMAN,
L.A.; VISHNEVSKIY, A.A.; VOLOSOV, D.S.; GASOVSKIY, L.N., professor;
GERSHUN, A.A., professor; YUL'YASHEVICH, M.A.; YEVSTROP'YEV, K.S.;
GUREVICH, M.M., professor; KOLYADIN, A.I.; KORYAKIN, B.M.; KURITS-
KIY, A.L.; PAPIYANTS, K.A.; PROKOF'YEV, V.K., professor; PUTSEYKO,
Ye.K.; REZUNOV, M.A.; RITYN', N.E., SAVOST'YANOVA, M.V., professor;
SEVCHENKO, A.N.; SENNOV, N.I.; STOZHAROV, A.I.; FAYERMAN, G.P.,
professor; FEOFILOV, P.P.; TSAREVSKIY, Ye.N., professor; CHECHMATAYEV,
D.P.; YUDIN, Ye.F.; KAVRAYSKIY, V.V., professor; VAVILOV, S.I.,
akademik, redaktor

[Optics in military science] Optika v voennom delo; sbornik statei.
Pod red. S.I.Vavilova i M.V.Savost'yanovo. Izd. 3-e, zanovo perer.
i dop. Moskva. Vol.2. 1948. 387 p. (MLRA 9:9)

1. Akademiya nauk SSSR. 2. Sostaviteli - sotrudniki Gosudarstven-
nogo Opticheskogo instituta (for all except Vavilov and Kavrayskiy)
3. Vojenno-morskaya akademiya (for Kavrayskiy)
(Optics)

FAYERNAN, G.P.

2/2X

$\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 125° (0.02 mm) (bath),
 $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 137°-139°, respectively. Hydrogenation in 50% aq. AcOH over Pd-C at room temp. and 1 atm. for 2-4 days yields 80-90% of 9 : 10-dimethoxy-3-methyl (2' : 3'-2-dimethyl-3-methyl), $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 110-120° (0.02 mm) (hydrochloride, m.p. 216-218° (decomp); *tarate* (hydrochloride, m.p. 173-175°), 9 : 10-dimethoxy-2 : 3-dimethyl [2' : 3' dimethoxy-2 : 3 dimethyl]-1 : 2 : 3 : 5 : 6 : 13-dimethyl [2' : 3' dimethoxy-2 : 3 dimethyl]-4 : 5 : 8 : 9-tetrahydro- β -azabicyclo[7.3.1]heptan-10-one ($\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 150-155° (bath)) 0.2 mm (picrate, chloride, m.p. 213-216° (decomp); *picrate*, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 163-164°), 10 : 11-dimethoxy-4-methyl (6 : 7-dimethoxy-4-methyl); $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 150-155° (bath) 0.2 mm (hydrochloride, m.p. 214-217° (decomp); *tarate* (hydrochloride, m.p. 181-183°), and 10 : 11-dimethoxy- $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 180-182° (bath) 0.2 mm (7 : 8 : 4-dimethyl-10 : 7-dimethoxy-1 : 2-dimethyl-1 : 2 : 3 : 4 : 6 : 7-hexahydrobenzocycloheptene-1 : 2 : 3 : 4 : 8 : 10 : 11 : 12-octahydro- β -azaphenanthrene), $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 130-133° (bath) 0.01 mm (hydrochloride, m.p. 217-219° (decomp); *tarate*, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 197-199°, respectively. These two bases, after conversion into the quaternary benzyl ammonium iodides (by treatment with CH_3I in C_6H_6 at the b.p. for 2 hr.) undergo Hofmann degradation, or treatment with AgNO_3 in 50% aq. AcOH over Pd-C followed by extended heating of the product in H_2O , to yield 70-100% of 2-(4' : 5'-dimethoxy-2'-vinylphenyl)-1-benzyl-5-oxo-5-pyrrolidine, $\text{C}_1\text{H}_{12}\text{O}_2\text{N}$, an oil, b.p. 125-135° (bath) 0.001 mm; 4 : 5-dimethylpyrrolidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 130-140° (bath) 0.01 mm; 4 : 6-methylpiperidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 150-160° (bath) 0.02 mm, and 5 : 6-dimethylpiperidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 180-190° (bath) 0.2 mm, respectively; hydrogenation in 50% aq. AcOH over Pd-C leads to saturation of the double-bond after 2-3 hr. at room temp., followed by hydrogenolysis of the 4'-HPh group after a further 5-10 hr. at 55-60°, to yield 90-95% of 2-(4' : 5'-dimethoxy-2'-vinylphenyl)-5-methylpyrrolidine, $\text{C}_1\text{H}_{12}\text{O}_2\text{N}$, oil, b.p. 103-115° (bath) 0.01 mm (*tarate*, $\text{C}_1\text{H}_{12}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 151-153°), 4 : 5-dimethylpyrrolidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 125-135°, 154-156°, 4 : 5-dimethylpiperidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 160-162°, (bath) 0.2 mm (*picrate*, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 160-162°), 4 : 6-methylpiperidine, an oil, b.p. 140-145° (bath) 0.1 mm (*picrate*, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 205-206°), and 5 : 6-dimethylpiperidine, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}$, oil, b.p. 136-140° (bath) 0.1 mm (*picrate*, $\text{C}_1\text{H}_{10}\text{O}_2\text{N}, \text{C}_1\text{H}_4\text{O}_2\text{N}_2$, m.p. 197-206°). E.G. PREPARED

CA

The role of pH in the development of color emulsions.
G. P. Farnum and N. N. Shishkin. *Zhur. Fiz. Khim.*, 23, 1659-63 (1949).—At const. exposure and developing time, the Ag image d. increases linearly with pH (cf. C.A. 37, 1634; 38, 1687*). The same relation holds for dye image d. of Agicolor pos. and neg. film. The spectrophotometric curves between 400 and 700 m μ present 3 max., the positions of which do not change with time of exposure or pH of developer. The optical d. of the dyes in the 3 layers can be characterized by these max., and the relative concn. of dye in each layer can be calc'd. as shown by Gorokhovskii, et al. (C.A. 46, 4401a). For the pos. film, a linear relation between pH (between 8.8 and 11.8) and d. at $\lambda = 440$, 530, and 670, resp., is found or between pH and relative concn. of dye in each layer. For the neg. film, the same linear relations hold at a pH of 9.1 to 11.8 at $\lambda = 440$, 530, and 660, resp. Consequently, the amt. of reduced Ag is proportional to the amt. of dye produced. Also, the principles of the electrochemical theory of development must remain valid for color emulsions. Michel Boudart

FAYERMAN, G. P.

3

Electro-Microscopical Investigation of Developed Grains of a Photographic Emulsion. G. P. FAERMAN and N. N. SHISHKINA. *J. Appl. Chem. USSR*, 1952, 25, 776-781.—Electron microphotographs of chemically developed silver 1952, 25, 776-781.—Electron microphotographs of chemically developed silver grains show that physical development occurs at the same time, especially when the developer is capable of dissolving silver halides to form complex compounds which are easily reducible. Photographic fogging appears to be a crystallization of large particles of metallic silver, similar to those obtained in physical development, only smaller in size. *Brit. Abs.*

PA 240T97

FAYERMAN, I. G.

USSR/Physics - Luminiscence

21 Dec 52

"Absorption and Luminiscence Spectra of Triphenylmethane Dyes," P. P. Feofilov and I. G. Fayerman

G. P. ??

"DAN SSSR" Vol 87, No 6, pp 931-934

Compare absorption and emission spectra of triphenylmethane dyes in order to verify that luminescence spectra should be narrower than absorption band. Results are tabulated. Besides fluorescence, the dyes emit for a few seconds a greenish afterglow in a wave-length shorter than the exciting light. Presented by A. N. Terenin. Received 21 Oct 52.

240T97

U S S R .

The electrochemical mechanism of the heterogeneous catalysis of certain ionic oxidation-reduction reactions. G. P. Faerman and E. D. Voelkova. *Trudy Sovetskogo Akad. Nauk S.S.R., Otdel. Khim. Nauk* 1950, 213-21 (1953).—The reduction of AgNO_3 by hydroquinone (I) and β -aminophenol (II) was studied to elucidate the mechanism of photographic development. The quantity of reduced Ag was detd. indirectly by measuring optical d. with a differential photodif. colorimeter. Temp. was $25 \pm 0.1^\circ$. Reacting concns. and other variables were selected for max. convenience. The reagents were specially purified and recrystd. Soln. (approx. 0.0015 mol./l.) were prep'd. in solns. of 1 wt. % gelatin. Care was taken to eliminate traces of H_2S and excess electrolyte. AgBr and AgI were prep'd. with nonactinic illumination. For the reaction of AgNO_3 with I a mixt. of 50 ml. 0.006M I in a phosphate buffer at pH = 6.24 and 100 ml. of 1 wt. % gelatin was added to 50 ml. 0.006M AgNO_3 . Samples were withdrawn successively, and the reaction was stopped with thiocyanate. For the reaction of AgNO_3 with II, 45 ml. of a soln. contg.

16 ml. 0.00207 M $(\text{HOC}_2\text{CNH}_3)_2\text{HSO}_4$ in acetate buffer at pH = 4.55 and 30 ml. of 1 wt. % gelatin were added to 15 ml. 0.0001 M AgNO_3 . Three ml. transferred to a cuvet, and the optical d. was measured. The solv gave better reproducibility than did the "blank" expts. The reaction with II was catalyzed (in decreasing order) by Ag, CuS, AgS, Se, CdS, PbS, and V_2O_5 . Catalysis was indicated for the halides of Ag, Hg, and Pb, although the data lay within the range of "blank" expts. Anthracene and glass had small effects; BaSO_4 had no effect and CaCO_3 retarded the reaction. The reaction with I was markedly catalyzed by Ag and Cu and significantly less by AgS, CuS, HgS, CdS, PbS, Se, and V_2O_5 . The expression of James (C.A. 33, 8066^a) is only one of many possible empirical formulas. Since electron-conducting compds. catalyze the reaction, the data are explained by an electrochemical mechanism and not by adsorption.

R. D. Misch

FAYERMAN, G.P.; SHISHKINA, N.N.

Role of alkali in color film development. Usp.nauch.fot. 2:63-71 '54.
(MIRA 7:5)

(Photographic chemistry) (Color photography--Developing and
developers)

FAYERMAN, G.P.

Works of Leningrad scientists in the field of scientific photography.
Usp.nauch.fot. 2:233-238 '54. (MLRA 7:5)

(Leningrad--Photography--Scientific applications)
(Photography--Scientific applications--Leningrad)

FAYERMAN, G.P.

G.P. Fayerman. "Osnovy Nauch. Fot., Akad. Nauk S.S.R."
Otdel. Khim. Nauk 3, 50-65(1955).—"Internal centers,"
in contrast to surface centers, influence the degree of light
sensitivity obtained in the 2nd ripening but not the fog
density. When the max. sensitivity obtained in the 2nd
ripening is plotted against the illumination of the emulsion
surface in the first ripening, the curve has a min. The in-
crease of fog add nonhaloid Ag (depending on illumination in
1st ripening) corresponds to the decrease of max. sensitivity
obtained in 2nd ripening. Eurilla Mayerle

DR. WAS
seen

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CIA-RDP86-00513R000412510020-6

FAVORMAN CP

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CIA-RDP86-00513R000412510020-6"

PAVLOVA, V.A.; PAYERMAN, G.P.

Reaction of phenyl mercaptan tetrazole with silver ions. Trudy
LIKI no.3:175-178 '55. (MLRA 9:8)

1. Kafedra tekhnologii pravivedstva kinofotomaterialov.
(Photographic emulsions) (Tetrazole)

(LIKI: Leningrad Inst. Cinema Engineers)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6

FAYERMAN, G.P.; VOYEYKOVA, Ye.D.

Study of the catalytic effect of sols on the reduction of silver ions
with developers. Usp.nauch.fot.no.4:150-163 '55. (MIRA 9:4)
(Photography--Developing and developers)

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CIA-RDP86-00513R000412510020-6"

Study of reaction rates in the reduction of silver by developing agents. G. F. Fetterman and J. P. Weller. *Polygraph* 4, 11, 1952.

The reaction rates in the reduction of silver by developing agents depend on the composition of the buffer solution. Developing agents, in order of magnitude of the reaction rates, are *p*-phenylenediamine, *p*-aminophenol, and *p*-nitrophenol. The magnitude of change in reaction rates with change in pH of the buffer can easily be determined. *p*-Aminophenol and *p*-nitrophenol are characterized by the following reaction curves:

FAYERMAN, G. P.

USSR/Physical Chemistry - Photochemistry. Radiation Chemistry. Theory of the Photographic Process, B-10

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61126

Author: Fayerman, G. P.

Institution: None

Title: Current State of the Theory of Development

Original

Periodical: Uspeshni nauchn. fotografii, 1955, 4, 127-143

Abstract: Critical review. Bibliography, 44 titles.

Card 1/1

FAYERMAN, G. P.

"On the Electrochemical Mechanism of Photographic Development," paper
given at the International Conference on Scientific Photography, Cologne, 24-27
Sep 1956

E-3,068,138

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6

PAYERMAN, G.P.

Terichan Pavlovich Krayets. Usp.fiz.mauk 58 no.2:183-192 P '56.
(Krayets, Terichan Pavlovich, 1876-1955) (MLRA 916)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6

AVGUSTINOVICH, K.A.; FAYERMAN, G.P.

Equation of the rate process of the recrystallization of silver
halide. Trudy LIKI no.4:143-149 '56. (MLRA 10:5)

1.Kafedra tekhnologii proizvodstva kinofotomaterialov.
(Photographic emulsions)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510020-6"

VEPRIK, Ya.M.; FAYERMAN, G.P.

Comparison of the reducing activity of p-oxyphenylglycine, metol,
and p-aminophenol. Trudy LIKI no.4:212-217 '56. (MLRA 10:5)

1.Kafedra obshchey i analiticheskoy khimii i kafedra fizicheskoy
khimii.

(Glycine) (Metol) (Phenol)

FAYERMAN, G.P.; VEPRIK, Ya.M.

Quantitative determination of p-hydroxyphenylglycine. Zhur.nauch.i
prikl.fot.i kin. 2 no.2:110-115 Mr-Ap '57. (MLRA 10:5)

1.Leningradskiy institut kinoinshenerov.
(Glycine)

~~FAYERMAN, O. P.~~

Conference for the coordination of work plans for 1957 in the
realm of scientific photography. Zhur. nauch. i prikl. fot. i kin.
2 no.2:155-156 Mr-Ap '57. (MLRA 10:5)
(Photography)

FAYERMAN, G.P.

USSR/Chemical Technology - Chemical Products and Their Application. Photographic Materials.

I-6

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2416

Author : Fayerman, G.P., Avgustinovich, K.A.

Inst : -

Title : Effect of Inhibitors on Kinetics of Physical Maturation of Photographic Emulsions.

Orig Pub : Zh. nauchn. i prikl. fotogr. i kinematogr., 1957, 2, No 3, 176-186

Abstract : A study was made of the effect on the dispersity of emulsions of various factors that affect the process of their physical maturation (PM). Determinations were made of the dispersity of emulsion, the average size was computed of the silver halide crystals, of their dispersion, and correlation was determined between $1/N$ (N -- number of crystals per 1 ml emulsion) and the time of maturation. On studying the kinetics of maturation of emulsions,

Card 1/3

*Transcribed into English from
Russian Text in original.*

USSR/Chemical Technology - Chemical Products and Their Application. Photographic Materials.

I-6

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2416

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prepared from 4 samples of slow gelatin containing much inhibitors (I), and from the same gelatin subjected to a preliminary treatment with MgO, to remove these I, it was ascertained that the I present in the gelatin have a considerable effect only on the chemical maturation and practically none on PM. On determining the effect of pH (from 2.4 to 9.2) on the rate of PM of non-ammonic emulsions there was ascertained a consistent increase of this rate with increase of pH. In the presence of ammonia this increase is still greater due to the dissolving effect of ammonia on AgBr. On studying the effect, on kinetics of PM, of emulsion stabilizing agents, namely, diphenyl-tetrazole disulfide (I), phenyl mercapto-tetrazole (II), 5-methyl-7-hydroxy-2,3,4-triazolo-indolizine (III) and benzotriazole (IV), it was found that all of them inhibit the process of PM, and the more so, the less the solubility pro

Card 2/3

USSR/Chemical Technology - Chemical Products and Their Application. Photographic Materials.

I-6

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2416